224^{th} Eigenvector

$\boldsymbol{N_e = 6 \qquad s = 1 \qquad m_s = -1}$

Irred. Representation : $\boldsymbol{\Gamma_{5,2}}$

$$E_{224} = \frac{1}{2}(J + 4(t + U + 13W))$$

$$\begin{aligned} |\Psi_{224}\rangle &= |6, 1, -1, \Gamma_{5,2}\rangle \\ &= \frac{1}{2}\left(|2d2d\rangle - |2dd2\rangle - |d22d\rangle + |d2d2\rangle\right) \end{aligned}$$